

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/560,024

DATE: 04/11/98
TIME: 16:01:11

INPUT SET: S24916.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#19

ENTERED

SEQUENCE LISTING

- 1
- 2
- 3 (1) General Information:
- 4
- 5 (i) APPLICANT: Chen, Yao-Tseng; Stockert, Elisabeth;
- 6 Chen, Yachi; Garin-Chesa, Pilar; Rettig, Wolfgang J.;
- 7 van der Bruggen, Pierre; Boon-Falleur, Thierry;
- 8 Old, Lloyd J.
- 9
- 10 (ii) TITLE OF INVENTION: MONOCLONAL ANTIBODIES WHICH BIND TO
- 11 TUMOR REJECTION ANTIGEN PRECURSOR MAGE-1, RECOMBINANT MAGE-1,
- 12 AND MAGE-1 DERIVED IMMUNOGENIC PEPTIDES
- 13
- 14 (iii) NUMBER OF SEQUENCES: 4
- 15
- 16 (iv) CORRESPONDENCE ADDRESS:
- 17 (A) ADDRESSEE: Felfe & Lynch
- 18 (B) STREET: 805 Third Avenue
- 19 (C) CITY: New York City
- 20 (D) STATE: New York
- 21 (F) ZIP: 10022
- 22
- 23 (v) COMPUTER READABLE FORM:
- 24 (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
- 25 (B) COMPUTER: IBM
- 26 (C) OPERATING SYSTEM: PC-DOS
- 27 (D) SOFTWARE: Wordperfect
- 28
- 29 (vi) CURRENT APPLICATION DATA:
- 30 (A) APPLICATION NUMBER: 08/560,024
- 31 (B) FILING DATE:
- 32 (C) CLASSIFICATION:
- 33
- 34 (vii) PRIOR APPLICATION DATA:
- 35 (A) APPLICATION NUMBER: US/08/190,411
- 36 (B) FILING DATE: 01-FEBRUARY-1994
- 37
- 38 (A) APPLICATION NUMBER: 037,230
- 39 (B) FILING DATE: 26-MARCH-1993
- 40
- 41 (vii) PRIOR APPLICATION DATA:
- 42 (A) APPLICATION NUMBER: PCT/US92/04354
- 43 (B) FILING DATE: 22-MAY-1992
- 44
- 45 (vii) PRIOR APPLICATION DATA:
- 46 (A) APPLICATION NUMBER: 07/807,043

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47 (B) FILING DATE: 12-DECEMBER-1991
48
49 (vii) PRIOR APPLICATION DATA:
50 (A) APPLICATION NUMBER: 07/764,364
51 (B) FILING DATE: 23-SEPTEMBER-1991
52
53 (vii) PRIOR APPLICATION DATA:
54 (A) APPLICATION NUMBER: 07/728,838
55 (b) FILING DATE: 9-JULY-1991
56
57
58 (vii) PRIOR APPLICATION DATA:
59 (A) APPLICATION NUMBER: 07/705,702
60 (B) FILING DATE: 23-MAY-1991
61
62 (viii) ATTORNEY/AGENT INFORMATION:
63 (A) NAME: Hanson, Norman D.
64 (B) REGISTRATION NUMBER: 30,946
65 (C) REFERENCE/DOCKET NUMBER: LUD 5354
66
67 (ix) TELECOMMUNICATION INFORMATION:
68 (A) TELEPHONE: (212) 688-9200
69 (B) TELEFAX: (212) 838-3884
70
71
72
73

74 (2) INFORMATION FOR SEQ ID NO: 1:
75 (i) SEQUENCE CHARACTERISTICS:
76 (A) LENGTH: 5674 base pairs
77 (B) TYPE: nucleic acid
78 (C) STRANDEDNESS: single
79 (D) TOPOLOGY: linear
80 (ii) MOLECULE TYPE: genomic DNA
81 (ix) FEATURE:
82 (A) NAME/KEY: MAGE-1 gene
83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
84
85

86	CCCCGGGGCAC	CACTGGCATC	CCTCCCCCTA	CCACCCCCAA	TCCCTCCCTT	50
87	TACGCCACCC	ATCCAAACAT	CTTCACGCTC	ACCCCCAGCC	CAAGCCAGGC	100
88	AGAATCCGGT	TCCACCCCTG	CTCTCAACCC	AGGGAAGCCC	AGGTGCCCAG	150
89	ATGTGACGCC	ACTGACTTGA	GCATTAGTGG	TTAGAGAGAA	GCGAGGTTTT	200
90	CGGTCTGAGG	GGCGGCTTGA	GATCGGTGGA	GGGAAGCGGG	CCCAGCTCTG	250
91	TAAGGAGGCA	AGGTGACATG	CTGAGGGAGG	ACTGAGGACC	CACTTACCCC	300
92	AGATAGAGGA	CCCCAAATAA	TCCCTTCATG	CCAGTCCTGG	ACCATCTGGT	350
93	GGTGGACTTC	TCAGGCTGGG	CCACCCCCAG	CCCCCTTGCT	GCTTAAACCA	400
94	CTGGGGACTC	GAAGTCAGAG	CTCCGTGTGA	TCAGGGAAGG	GCTGCTTAGG	450
95	AGAGGGCAGC	GTCCAGGCTC	TGCCAGACAT	CATGCTCAGG	ATTCTCAAGG	500
96	AGGGCTGAGG	GTCCCTAAGA	CCCCACTCCC	GTGACCCAAC	CCCCACTCCA	550
97	ATGCTCACTC	CCGTGACCCA	ACCCCTCTTT	CATTGTCTATT	CCAACCCCCA	600
98	CCCCACATCC	CCCACCCCAT	CCCTCAACCC	TGATGCCCCAT	CCGCCCAGCC	650
99	ATTCCACCCT	CACCCCCACC	CCCACCCCCA	CGCCCACTCC	CACCCCCACC	700

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100	CAGGCAGGAT	CCGGTTCCCG	CCAGGAAACA	TCCGGGTGCC	CGGATGTGAC	750
101	GCCACTGACT	TGCGCATTTGT	GGGGCAGAGA	GAAGCGAGGT	TTCCATTCTG	800
102	AGGGACGGCG	TAGAGTTCCG	CCGAAGGAAC	CTGACCCAGG	CTCTGTGAGG	850
103	AGGCAAGGTG	AGAGGCTGAG	GGAGGACTGA	GGACCCCGCC	ACTCCAAATA	900
104	GAGAGCCCCA	AATATTCCAG	CCCCGCCCTT	GCTGCCAGCC	CTGGCCCACC	950
105	CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
106	CCTTGAGAGA	CACCAGGTTT	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
107	TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
108	GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
109	ACTCCAATCC	CCACTCCCAC	CCCATTTCGA	TTCCCATTTCC	CCACCCAACC	1200
110	CCCATCTCCT	CAGCTACACC	TCCACCCCCA	TCCCTACTCC	TACTCCGTCA	1250
111	CCTGACCACC	ACCCCTCCAGC	CCCAGCACCA	GCCCCAACCC	TTCTGCCACO	1300
112	TCACCCCTCAC	TGCCCCCAAC	CCCACCCTCA	TCTCTCTCAT	GTGCCCCACT	1350
113	CCCATCGCCT	CCCCCATTTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
114	CCAGGGAAGC	CCTGGTAGGC	CCGATGTGAA	ACCACTGACT	TGAACCTCAC	1450
115	AGATCTGAGA	GAAGCCAGGT	TCATTTAATG	GTTCTGAGGG	GCGGCTTGAG	1500
116	ATCCACTGAG	GGGAGTGGTT	TTAGGCTCTG	TGAGGAGGCA	AGGTGAGATG	1550
117	CTGAGGGAGG	ACTGAGGAGG	CACACACCCC	AGGTAGATGG	CCCCAAAATG	1600
118	ATCCAGTACC	ACCCCTGCTG	CCAGCCCTGG	ACCACCCGGC	CAGGACAGAT	1650
119	GTCTCAGCTG	GACCACCCCC	CGTCCCGTCC	CACTGCCACT	TAACCCACAG	1700
120	GGCAATCTGT	AGTCATAGCT	TATGTGACCG	GGGCAGGGTT	GGTCAGGAGA	1750
121	GGCAGGGCCC	AGGCATCAAG	GTCCAGCATC	CGCCCGGCAT	TAGGGTCAGG	1800
122	ACCCCTGGGAG	GGAAC TGAGG	GTTCCCCACC	CACACCTGTC	TCCTCATCTC	1850
123	CACCGCCACC	CCACTCACAT	TCCCATACCT	ACCCCTTACC	CCCAACCTCA	1900
124	TCTTGTGAGA	ATCCCTGCTG	TCAACCCACG	GAAGCCACGG	GAATGGCGGG	1950
125	CAGGCAC TCG	GATCTTGACG	TCCCCATCCA	GGGTCTGATG	GAGGGAAGGG	2000
126	GCTTGAACAG	GGCCTCAGGG	GAGCAGAGGG	AGGGCCCTAC	TGCGAGATGA	2050
127	GGGAGGCCCT	AGAGGACCCA	GCACCCTAGG	ACACCGCACC	CCTGTCTGAG	2100
128	ACTGAGGCTG	CCACTTCTGG	CCTCAAGAAT	CAGAACGATG	GGGACTCAGA	2150
129	TTGCATGGGG	GTGGGACCCA	GGCCTGCAAG	GCTTACGCGG	AGGAAGAGGA	2200
130	GGGAGGACTC	AGGGGACCTT	GGAATCCAGA	TCAGTGTGGA	CCTCGGCCCT	2250
131	GAGAGGTCCA	GGGCACGGTG	GCCACATATG	GCCCATATTT	CCTGCATCTT	2300
132	TGAGGTGACA	GGACAGAGCT	GTGGTCTGAG	AAGTGGGGCC	TCAGGTCAAC	2350
133	AGAGGGAGGA	GTTCCAGGAT	CCATATGGCC	CAAGATGTGC	CCCCTTCATG	2400
134	AGGACTGGGG	ATATCCCCGG	CTCAGAAAGA	AGGGACTCCA	CACAGTCTGG	2450
135	CTGTCCCCCT	TTAGTAGCTC	TAGGGGGACC	AGATCAGGGA	TGGCGGTATG	2500
136	TTCCATTCTC	ACTTGTACCA	CAGGCAGGAA	GTTGGGGGGC	CCTCAGGGAG	2550
137	ATGGGGTCTT	GGGGTAAAGG	GGGGATGTCT	ACTCATGTCA	GGGAATTGGG	2600
138	GGTTGAGGAA	GCACAGGCGC	TGGCAGGAAT	AAAGATGAGT	GAGACAGACA	2650
139	AGGCTATTGG	AATCCACACC	CCAGAACCAG	AGGGGTGAGC	CCTGGACACC	2700
140	TCACCCAGGA	TGTGGCTTCT	TTTTCACTCC	TGTTTCCAGA	TCTGGGGCAG	2750
141	GTGAGGACCT	CATTCTCAGA	GGGTGACTCA	GGTCAACGTA	GGGACCCCCA	2800
142	TCTGGTCTAA	AGACAGAGCG	GTCCCAGGAT	CTGCCATGCG	TTCGGGTGAG	2850
143	GAACATGAGG	GAGGACTGAG	GGTACCCAG	GACCAGAACA	CTGAGGGAGA	2900
144	CTGCACAGAA	ATCAGCCCTG	CCCCTGCTGT	CACCCAGAG	AGCATGGGCT	2950
145	GGGCCGTCTG	CCGAGGTCCCT	TCCGTTATCC	TGGGATCATT	GATGTCAGGG	3000
146	ACGGGGAGGC	CTTGGTCTGA	GAAGGCTGCG	CTCAGGTGAG	TAGAGGGAGC	3050
147	GTCCCAGGCC	CTGCCAGGAG	TCAAGGTGAG	GACCAAGCGG	GCACCTCACC	3100
148	CAGGACACAT	TAATTCCAAT	GAATTTTGAT	ATCTCTTGCT	GCCCTTCCCC	3150
149	AAGGACCTAG	GCACGTGTGG	CCAGATGTTT	GTCCCCTCCT	GTCTTCCAT	3200
150	TCTTTATCAT	GGATGTGAAC	TCTTGATTTG	GATTTCTCAG	ACCAGCAAAA	3250
151	GGGCAGGATC	CAGGCCCTGC	CAGGAAAAAT	ATAAGGGCCC	TGCGTGAGAA	3300
152	CAGAGGGGGT	CATCCACTGC	ATGAGAGTGG	GGATGTCACA	GAGTCCAGCC	3350

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153	CACCCCTCCTG	GTAGCACTGA	GAAGCCAGGG	CTGTGCTTGC	GGTCTGCACC✓	3400
154	CTGAGGGCCCC	GTGGATTCCCT	CTTCCTGGAG	CTCCAGGAAC	CAGGCAGTGA✓	3450
155	GGCCTTGGTC	TGAGACAGTA	TCCTCAGGTC	ACAGAGCAGA	GGATGCACAG✓	3500
156	GGTGTGCCAG	CAGTGAATGT	TTGCCCTGAA	TGCACACCAA	GGGCCCCACC✓	3550
157	TGCCACAGGA	CACATAGGAC	TCCACAGAGT	CTGGCCTCAC	CTCCCTACTG✓	3600
158	TCAGTCCTGT	AGAATCGACC	TCTGCTGGCC	GGCTGTACCC	TGAGTACCCT✓	3650
159	CTCACTTCCT	CCTTCAGGTT	TTCAGGGGAC	AGGCCAACCC	AGAGGACAGG✓	3700
160	ATTCCCTGGA	GGCCACAGAG	GAGCACCAAG	GAGAAGATCT	GTAAGTAGGC✓	3750
161	CTTTGTTAGA	GTCTCCAAGG	TTCAGTTCTC	AGCTGAGGCC	TCTCACACAC✓	3800
162	TCCCTCTCTC	CCCAGGCCCTG	TGGGTCTTCA	TTGCCCAGCT	CCTGCCACAC✓	3850
163	CTCCTGCCTG	CTGCCCTGAC	GAGAGTCATC			3880
164	ATG TCT CTT	GAG CAG AGG	AGT CTG CAC	TGC AAG CCT	GAG GAA	3922
165	GCC CTT GAG	GCC CAA CAA	GAG GCC CTG	GGC CTG GTG	TGT GTG	3964
166	CAG GCT GCC	ACC TCC TCC	TCT CCT CTG	GTC CTG GGC	ACC	4006
167	CTG GAG GAG	GTG CCC ACT	GCT GGG TCA	ACA GAT CCT	CCC CAG	4048
168	AGT CCT CAG	GGA GCC TCC	GCC TTT CCC	ACT ACC ATC	AAC TTC	4090
169	ACT CGA CAG	AGG CAA CCC	AGT GAG GGT	TCC AGC AGC	CGT GAA	4132
170	GAG GAG GGG	CCA AGC ACC	TCT TGT ATC	CTG GAG TCC	TTG TTC	4174
171	CGA GCA GTA	ATC ACT AAG	AAG GTG GCT	GAT TTG GTT	GGT TTT	4216
172	CTG CTC CTC	AAA TAT CGA	GCC AGG GAG	CCA GTC ACA	AAG GCA	4258
173	GAA ATG CTG	GAG AGT GTC	ATC AAA AAT	TAC AAG CAC	TGT TTT	4300
174	CCT GAG ATC	TTC GGC AAA	GCC TCT GAG	TCC TTG CAG	CTG GTC	4342
175	TTT GGC ATT	GAC GTG AAG	GAA GCA GAC	CCC ACC GGC	CAC TCC	4384
176	TAT GTC CTT	GTC ACC TGC	CTA GGT CTC	TCC TAT GAT	GGC CTG	4426
177	CTG GGT GAT	AAT CAG ATC	ATG CCC AAG	ACA GGC TTC	CTG ATA	4468
178	ATT GTC CTG	GTC ATG ATT	GCA ATG GAG	GGC GGC CAT	GCT CCT	4510
179	GAG GAG GAA	ATC TGG GAG	GAG CTG AGT	GTG ATG GAG	GTG TAT	4552
180	GAT GGG AGG	GAG CAC AGT	GCC TAT GGG	GAG CCC AGG	AAG CTG	4594
181	CTC ACC CAA	GAT TTG GTG	CAG GAA AAG	TAC CTG GAG	TAC GGC	4636
182	AGG TGC CGG	ACA GTG ATC	CCG CAC GCT	ATG AGT TCC	TGT GGG	4678
183	GTC CAA GGG	CCC TCG CTG	AAA CCA GCT	ATG TGA		4711
184	AAGTCCCTTGA	GTATGTGATC	AAGGTCAGTG	CAAGAGTTC		4750
185	GCTTTTCTT	CCCATCCCTG	CGTGAAGCAG	CTTTGAGAGA	GGAGGAAGAG	4800
186	GGAGTCTGAG	CATGAGTTGC	AGCCAAGGCC	AGTGGGAGGG	GGACTGGGCC	4850
187	AGTGACCTT	CCAGGGCCGC	GTCCAGCAGC	TTCCCTGCC	TCGTGTGACA	4900
188	TGAGGCCCCAT	TCTTCACTCT	GAAGAGAGCG	GTCAGTGTTT	TCAGTAGTAG	4950
189	GTTTCTGTTC	TATTGGGTGA	CTTGGAGATT	TATCTTTGTT	CTCTTTTGGA	5000
190	ATTGTTCAAA	TGTTTTTTTT	TAAGGGATGG	TTGAATGAAC	TTCAGCATCC	5050
191	AAGTTTATGA	ATGACAGCAG	TCACACAGTT	CTGTGTATAT	AGTTTAAGGG	5100
192	TAAGAGTCTT	GTGTTTTATT	CAGATTGGGA	AATCCATTCT	ATTTTGTGAA	5150
193	TTGGGATAAT	AACAGCAGTG	GAATAAGTAC	TTAGAAATGT	GAAAAATGAG	5200
194	CAGTAAAATA	GATGAGATAA	AGAACTAAAG	AAATTAAGAG	ATAGTCAATT	5250
195	CTTGCCCTTAT	ACCTCAGTCT	ATTCTGTAAA	ATTTTAAAG	ATATATGCAT	5300
196	ACCTGGATTT	CCTTGGCTTC	TTTGAGAATG	TAAGAGAAAT	TAAATCTGAA	5350
197	TAAAGAATTC	TTCTGTTC	CTGGCTCTTT	TCTTCTCCAT	GCACTGAGCA	5400
198	TCTGCTTTTT	GGAAGGCCCT	GGGTAGTAG	TGGAGATGCT	AAGGTAAGCC	5450
199	AGACTCATAC	CCACCCATAG	GGTCGTAGAG	TCTAGGAGCT	GCAGTCACGT	5500
200	AATCGAGGTG	GCAAGATGTC	CTCTAAAGAT	GTAGGGAAAA	GTGAGAGAGG	5550
201	GGTGAGGGTG	TGGGGCTCCG	GGTGAGAGTG	GTGGAGTGTC	AATGCCCTGA	5600
202	GCTGGGGCAT	TTTGGGCTTT	GGGAACTGC	AGTTCTTCT	GGGGGAGCTG	5650
203	ATTGTAATGA	TCTTGGGTGG	ATCC			5674
204						
205						

RAW SEQUENCE LISTING
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206
207 (2) INFORMATION FOR SEQ ID NO: 2:
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 14 amino acid residues
210 (B) TYPE: amino acid
211 (D) TOPOLOGY: linear
212 (ii) MOLECULE TYPE: protein
213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
214
215
216 Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser Ser
217 5 10
218
219
220 (2) INFORMATION FOR SEQ ID NO: 3:
221 (i) SEQUENCE CHARACTERISTICS:
222 (A) LENGTH: 12 amino acid residues
223 (B) TYPE: amino acid
224 (D) TOPOLOGY: linear
225 (ii) MOLECULE TYPE: protein
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
227
228
229 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp
230 5 10
231
232
233
234 (2) INFORMATION FOR SEQ ID NO: 4:
235 (i) SEQUENCE CHARACTERISTICS:
236 (A) LENGTH: 12 amino acid residues
237 (B) TYPE: amino acid
238 (D) TOPOLOGY: linear
239 (ii) MOLECULE TYPE: protein
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
241
242
243 Asp Val Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
244 5 10
245

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SEQUENCE VERIFICATION REPORT
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Original Text